Upper Mississippi River System Hydraulic Model Update [SJ/FPMS]

Location
NONE PROVIDED

State(s)
IA,IL

Congressional District(s)

Status
The model would also provide a base condition for real-time river forecasting, Corps Water Management, evaluation of floodplain permitting issues, and flood fighting operations. The estimated time-line for model completion is 18 months following receipt of funding. This project will provide the components to identify and respond to future flood events reducing flood damages and improving life safety. This project will provide the base condition to improve the accuracy of forecast models. By providing better information and reducing the uncertainty about flow levels, the outcome from this project may result in a decrease for the need of structural flood control solutions. Flood planning tools will proactively reduce hazard risks and invest in hazard response and recovery capacity. The community based flood planning will mitigate risk to health, safety, and property posed by floods in order to protect life, property, and the economy, and lower the demand for response.

Description
The project purpose is to develop an Upper Mississippi River System Hydraulic model. The need has been identified by U.S. Army Corps of Engineers districts, and state and federal partners for an updated, user-friendly Mississippi River System Hydrologic Engineering Centers River Analysis System (HEC-RAS) model which would incorporate software improvements, navigation dams, and the availability of period-of-record inflow data files for model users. The updated Upper Mississippi River System Hydraulic (UMR) HEC-RAS computation model would allow for wider use for floodplain management on the UMR system in support of flood risk management and 408 Levee Modification studies. The development of the UMR hydraulic model will be a collaborative effort by federal and state agencies facilitated by USACE Rock Island and St. Louis Districts covering 320 river miles from Mississippi River Lock and Dam 19 to Thebes, Illinois. The HEC-RAS model will run unsteady flow hydrographs and will provide a base condition to efficiently evaluate proposed changes to the system and subsequent transference of risk.

Summarized Project Costs

	Investigations
Estimated Federal Cost	$ 500,000
Estimated Non-Federal Cost	$
Total Estimated Cost	$

Financial Status

	Investigations

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FY 2016 Budget Amount	$ 300,000
FY 2017 Budget Amount	$ 200,000
Balance to Complete	$

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Email: NONE PROVIDED

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